**NOTRE DAME UNIVERSITY BANGLADESH**



Data Structure Report

Task- 09

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Subject: Data Structure

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Batch: CSE-19

**Adjacency Matrix:**

#include<stdio.h>

main()

{

int i,j,p,q,n,e;

printf ("Enter the number of vertex : ");

scanf("%d",&n);

printf ("Enter the number of edge : ");

scanf("%d",&e);

int a[n+1][n+1];

for(i=1; i<=n; i++)

{

for(j=1; j<=n; j++)

{

a[i][j]=0;

}

}

for(i=1; i<=n; i++)

{

//printf("%d:",i);

for (j=1; j<=n; j++)

{printf ("%d ",a[i][j]);

}printf("\n");

}printf("Enter the edges:\n");

for(int k=1; k<=e; k++)

{scanf("%d %d",&p,&q);

a[p][q]=1;

//a[q][p]=1;

}for(i=1; i<=n; i++)

{

//printf("%d:",i);

for (j=1; j<=n; j++)

{

printf ("%d ",a[i][j]);

}

printf("\n");

}

return 0;}